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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/683,831	02/21/2002	Louis L. Hsu	BUR920010134	7837	
23389	7590 06/20/2003				
SCULLY SCOTT MURPHY & PRESSER, PC			EXAMINER		
	400 GARDEN CITY PLAZA GARDEN CITY, NY 11530			TRAN, MAI HUONG C	
			ART UNIT	PAPER NUMBER	
			2818		
			DATE MAILED: 06/20/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

",	Application No.	Applicant(s)			
•	09/683,831	HSU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Mai-Huong Tran	2818			
The MAILING DATE of this communication ap	op ars on the cover shet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP	LY IS SET TO EXPIRE 3 M	ONTH(S) FROM			
THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		eply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 21	February 2002				
/-	his action is non-final.				
Since this application is in condition for allow closed in accordance with the practice under the practice of Claims.	vance except for formal mat er <i>Ex parte Quayle</i> , 1935 C.I	ters, prosecution as to the merits is 0. 11, 453 O.G. 213.			
Disposition of Claims 4)⊠ Claim(s) 1-19 is/are pending in the application	nn.				
4a) Of the above claim(s) is/are withdra					
5) Claim(s) is/are allowed.	awii iioiii consideration.				
6)⊠ Claim(s) <u>1-19</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement				
Application Papers	or election requirement.				
9) The specification is objected to by the Examin	er.				
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the	ne Examiner.			
Applicant may not request that any objection to t	he drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).			
11) The proposed drawing correction filed on	is: a)□ approved b)□ di	sapproved by the Examiner.			
If approved, corrected drawings are required in r	eply to this Office action.				
12) ☐ The oath or declaration is objected to by the E	xaminer.				
Priority under 35 U.S.C. §§ 119 and 120	•				
13) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C. §	119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documer	1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documer	2. Certified copies of the priority documents have been received in Application No				
 3. Copies of the certified copies of the pri- application from the International B * See the attached detailed Office action for a list 	sureau (PCT Rule 17.2(a)).	•			
14) Acknowledgment is made of a claim for domes					
a) The translation of the foreign language p					
15) Acknowledgment is made of a claim for domes	• • • • • • • • • • • • • • • • • • • •				
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 U.S.C. § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-19 are rejected under 35 U.S.C. 103 (a) as being unpatentable over U.S. Patent No. 5,422,504 to Chang et al. in view of Rajeevakumar (5,658,816).

Regarding to claim 1, Chang et al. disclose a pair of programmable memory cells comprising a shared control gate 30/32, first and second floating gates 40 having respective gate regions located on respective sides of the control gate 30/32, and dielectric structures 34 located between the control gate and respective ones of the gates of the floating gates as set forth in cols. 4-6, and fig. 4. Chang does not disclose the control gate and the gates of the first and second floating gates are located within a space of a single lithographic square. Rajeevakumar teaches about the lithographic square as set forth in col. 2, lines 43-47.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the control gate and the gates of the first and second floating

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gates located within a space of a single lithographic square, as taught by Rajeevakumar in order to improve the cell area and to increase the device length (abstract).

Claim 2 is rejected under the same rationale set forth above to claim 1. Claim 3 is rejected under the same rationale set forth above to claim 1. Claim 4 is rejected under the same rationale set forth above to claim 1. Claim 5 is rejected under the same rationale set forth above to claim 1. Claim 6 is rejected under the same rationale set forth above to claim 1. Claim 7 is rejected under the same rationale set forth above to claim 1. Claim 8 is rejected under the same rationale set forth above to claim 1. Claim 9 is rejected under the same rationale set forth above to claim 1. Claim 10 is rejected under the same rationale set forth above to claim 1. Claim 11 is rejected under the same rationale set forth above to claim 1. Claim 12 is rejected under the same rationale set forth above to claim 1. Claim 13 is rejected under the same rationale set forth above to claim 1. Claim 14 is rejected under the same rationale set forth above to claim 1. Claim 15 is rejected under the same rationale set forth above to claim 1. Claim 16 is rejected under the same rationale set forth above to claim 1. Claim 17 is rejected under the same rationale set forth above to claim 1. Claim 18 is rejected under the same rationale set forth above to claim 1. Claim 19 is rejected under the same rationale set forth above to claim 1. Application/Control Number: 09/683,831

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Conclusion

Any inquiry concerning this communication on earlier communications from the examiner should be directed to Mai-Huong Tran, (703) 305-1958. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:30 PM. The examiner's supervisor, David Nelms can be reached on (703) 308-4910.

The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7724. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Mai-Huong Tran

HOAI HO
PRIMARY EXAMINER